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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/918,601C

DATE: 05/13/2003

TIME: 14:28:35

Input Set : D:\seqlist.txt

Output Set: N:\CRF4\05132003\I918601C.raw

3 <110> APPLICANT: Nolan, Garry P
5 <120> TITLE OF INVENTION: METHODS FOR SCREENING FOR TRANSDOMINANT INTRACELLULAR
6 EFFECTOR PEPTIDES AND RNA MOLECULES
8 <130> FILE REFERENCE: RIGL-004CON3
10 <140> CURRENT APPLICATION NUMBER: US 09/918,601C
11 <141> CURRENT FILING DATE: 2001-07-30
13 <150> PRIOR APPLICATION NUMBER: US 09/727,715
14 <151> PRIOR FILING DATE: 2000-11-28
16 <150> PRIOR APPLICATION NUMBER: US 08/963,368
17 <151> PRIOR FILING DATE: 1997-11-03
19 <150> PRIOR APPLICATION NUMBER: US 08/589,109
20 <151> PRIOR FILING DATE: 1996-01-23
22 <150> PRIOR APPLICATION NUMBER: US 08/589,911
23 <151> PRIOR FILING DATE: 1996-01-23
25 <150> PRIOR APPLICATION NUMBER: US 08/789,333
26 <151> PRIOR FILING DATE: 1997-01-23
28 <150> PRIOR APPLICATION NUMBER: US 08/787,738
29 <151> PRIOR FILING DATE: 1997-01-23
31 <160> NUMBER OF SEQ ID NOS: 102
33 <170> SOFTWARE: PatentIn Ver. 2.0
35 <210> SEQ ID NO: 1
36 <211> LENGTH: 48
37 <212> TYPE: DNA
38 <213> ORGANISM: Artificial Sequence
40 <220> FEATURE:
41 <223> OTHER INFORMATION: Description of Artificial Sequence: random
42 sequence.
44 <220> FEATURE:
45 <221> NAME/KEY: misc_feature
46 <222> LOCATION: (7)..(35)
47 <223> OTHER INFORMATION: The n(s) at positions
48 7,8,10,11,13,14,16,17,19,20,22,23,25,26,28,29,31,3
49 2,34,35 can be any nucleic acid.
51 <400> SEQUENCE: 1
W--> 52 atgggannkn nknknknkn knknknknkn nnknknkgggg ggcccccc 48
54 <210> SEQ ID NO: 2
55 <211> LENGTH: 16
56 <212> TYPE: PRT
57 <213> ORGANISM: Artificial Sequence
59 <220> FEATURE:
60 <223> OTHER INFORMATION: Description of Artificial Sequence: random
61 sequence.
63 <220> FEATURE:

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64 <221> NAME/KEY: VARIANT
65 <222> LOCATION: (3)..(12)
66 <223> OTHER INFORMATION: The Xaa(s) at positions 3-12 can be any amino
67 acid.
69 <400> SEQUENCE: 2
W--> 70 Met Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gly Pro Pro
71 1 5 10 15
74 <210> SEQ ID NO: 3
75 <211> LENGTH: 4
76 <212> TYPE: PRT
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Description of Artificial Sequence: molecular
81 flexibility/stability sequence.
83 <400> SEQUENCE: 3
84 Gly Gly Pro Pro
85 1
88 <210> SEQ ID NO: 4
89 <211> LENGTH: 61
90 <212> TYPE: PRT
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Description of Artificial Sequence: coiled-coil
95 structure.
97 <400> SEQUENCE: 4
98 Met Gly Cys Ala Ala Leu Glu Ser Glu Val Ser Ala Leu Glu Ser Glu
99 1 5 10 15
101 Val Ala Ser Leu Glu Ser Glu Val Ala Ala Leu Gly Arg Gly Asp Met
102 20 25 30
104 Pro Leu Ala Ala Val Lys Ser Lys Leu Ser Ala Val Lys Ser Lys Leu
105 35 40 45
107 Ala Ser Val Lys Ser Lys Leu Ala Ala Cys Gly Pro Pro
108 50 55 60
111 <210> SEQ ID NO: 5
112 <211> LENGTH: 6
113 <212> TYPE: PRT
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Description of Artificial Sequence: loop
118 structure.
120 <400> SEQUENCE: 5
121 Gly Arg Gly Asp Met Pro
122 1 5
125 <210> SEQ ID NO: 6
126 <211> LENGTH: 69
127 <212> TYPE: PRT
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: Description of Artificial Sequence: minibody

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```

132      presentation structure.
134 <400> SEQUENCE: 6
135 Met Gly Arg Asn Ser Gln Ala Thr Ser Gly Phe Thr Phe Ser His Phe
136   1           5           10           15
138 Tyr Met Glu Trp Val Arg Gly Gly Glu Tyr Ile Ala Ala Ser Arg His
139           20           25           30
141 Lys His Asn Lys Tyr Thr Thr Glu Tyr Ser Ala Ser Val Lys Gly Arg
142           35           40           45
144 Tyr Ile Val Ser Arg Asp Thr Ser Gln Ser Ile Leu Tyr Leu Gln Lys
145           50           55           60
147 Lys Lys Gly Pro Pro
148 65
151 <210> SEQ ID NO: 7
152 <211> LENGTH: 7
153 <212> TYPE: PRT
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Description of Artificial Sequence: nuclear
158      localization sequence.
160 <400> SEQUENCE: 7
161 Pro Lys Lys Lys Arg Lys Val
162   1           5
165 <210> SEQ ID NO: 8
166 <211> LENGTH: 6
167 <212> TYPE: PRT
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Description of Artificial Sequence: nuclear
172      localization sequence.
174 <400> SEQUENCE: 8
175 Ala Arg Arg Arg Arg Pro
176   1           5
179 <210> SEQ ID NO: 9
180 <211> LENGTH: 10
181 <212> TYPE: PRT
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Description of Artificial Sequence: nuclear
186      localization sequence.
188 <400> SEQUENCE: 9
189 Glu Glu Val Gln Arg Lys Arg Gln Lys Leu
190   1           5           10
193 <210> SEQ ID NO: 10
194 <211> LENGTH: 9
195 <212> TYPE: PRT
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Description of Artificial Sequence: nuclear
200      localization sequence.

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202 <400> SEQUENCE: 10
203 Glu Glu Lys Arg Lys Arg Thr Tyr Glu
204   1           5
207 <210> SEQ ID NO: 11
208 <211> LENGTH: 20
209 <212> TYPE: PRT
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Description of Artificial Sequence: nuclear
214     localization sequence.
216 <400> SEQUENCE: 11
217 Ala Val Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly Gln Ala Lys Lys
218   1           5           10           15
220 Lys Lys Leu Asp
221           20
224 <210> SEQ ID NO: 12
225 <211> LENGTH: 31
226 <212> TYPE: PRT
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Description of Artificial Sequence: signal
231     sequence.
233 <400> SEQUENCE: 12
234 Met Ala Ser Pro Leu Thr Arg Phe Leu Ser Leu Asn Leu Leu Leu Leu
235   1           5           10           15
237 Gly Glu Ser Ile Leu Gly Ser Gly Glu Ala Lys Pro Gln Ala Pro
238           20           25           30
241 <210> SEQ ID NO: 13
242 <211> LENGTH: 21
243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Description of Artificial Sequence: signal
248     sequence.
250 <400> SEQUENCE: 13
251 Met Ser Ser Phe Gly Tyr Arg Thr Leu Thr Val Ala Leu Phe Thr Leu
252   1           5           10           15
254 Ile Cys Cys Pro Gly
255           20
258 <210> SEQ ID NO: 14
259 <211> LENGTH: 51
260 <212> TYPE: PRT
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Description of Artificial Sequence: transmembrane
265     domain sequence.
267 <400> SEQUENCE: 14
268 Pro Gln Arg Pro Glu Asp Cys Arg Pro Arg Gly Ser Val Lys Gly Thr
269   1           5           10           15

```

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```

271 Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly
272           20           25           30
274 Ile Cys Val Ala Leu Leu Leu Ser Leu Ile Ile Thr Leu Ile Cys Tyr
275           35           40           45
277 His Ser Arg
278           50
281 <210> SEQ ID NO: 15
282 <211> LENGTH: 33
283 <212> TYPE: PRT
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Description of Artificial Sequence: transmembrane
288     sequence.
290 <400> SEQUENCE: 15
291 Met Val Ile Ile Val Thr Val Val Ser Val Leu Leu Ser Leu Phe Val
292   1           5           10           15
294 Thr Ser Val Leu Leu Cys Phe Ile Phe Gly Gln His Leu Arg Gln Gln
295           20           25           30
297 Arg
301 <210> SEQ ID NO: 16
302 <211> LENGTH: 37
303 <212> TYPE: PRT
304 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:
307 <223> OTHER INFORMATION: Description of Artificial Sequence: membrane
308     anchor sequence.
310 <400> SEQUENCE: 16
311 Pro Asn Lys Gly Ser Gly Thr Thr Ser Gly Thr Thr Arg Leu Leu Ser
312   1           5           10           15
314 Gly His Thr Cys Phe Thr Leu Thr Gly Leu Leu Gly Thr Leu Val Thr
315           20           25           30
317 Met Gly Leu Leu Thr
318           35
321 <210> SEQ ID NO: 17
322 <211> LENGTH: 14
323 <212> TYPE: PRT
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Description of Artificial Sequence:myristylation
328     sequence.
330 <400> SEQUENCE: 17
331 Met Gly Ser Ser Lys Ser Lys Pro Lys Asp Pro Ser Gln Arg
332   1           5           10
335 <210> SEQ ID NO: 18
336 <211> LENGTH: 26
337 <212> TYPE: PRT
338 <213> ORGANISM: Artificial Sequence
340 <220> FEATURE:
341 <223> OTHER INFORMATION: Description of Artificial Sequence: palmitoylation

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/918,601C

DATE: 05/13/2003
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Input Set : D:\seqlist.txt
 Output Set: N:\CRF4\05132003\I918601C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 7,8,10,11,13,14,16,17,19,20,22,23,25,26,28,29,31,32,34,35
 Seq#:2; Xaa Pos. 3,4,5,6,7,8,9,10,11,12
 Seq#:38; Xaa Pos. 3,4,5,6
 Seq#:41; Xaa Pos. 115,116,117,118,119,120
 Seq#:42; Xaa Pos. 140,141,142,143,144,145
 Seq#:43; Xaa Pos. 38,39,40,41,42,43
 Seq#:44; Xaa Pos. 63,64,65,66,67,68
 Seq#:45; Xaa Pos. 38,39,40,41,42,43
 Seq#:46; Xaa Pos. 62,63,64,65,66,67
 Seq#:47; Xaa Pos. 1,2,3,6,8,9
 Seq#:48; N Pos. 7,8,10,11,13,14,16,17,19,20
 Seq#:49; Xaa Pos. 3,4,5,6,7,13,15,16
 Seq#:50; Xaa Pos. 2,3,4,5,6,7,8,9,10,11
 Seq#:53; N Pos. 28,29,31,32,34,35,37,38,40,41,43,44,46,47,49,50,52,53,55,56
 Seq#:55; N Pos. 23,24
 Seq#:56; N Pos. 23,24,26,27,29,30,38,39,44,45,47,48
 Seq#:61; N Pos. 35,36,38,39,41,42,47,48
 Seq#:62; Xaa Pos. 7,8,9,11
 Seq#:80; Xaa Pos. 1,2,3,4,5,6
 Seq#:82; Xaa Pos. 3,4,5,6,7,8,9,10,11,12
 Seq#:98; Xaa Pos. 1,2,3,4,5
 Seq#:100; Xaa Pos. 1,2,3,5

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,2,3,4,6,7,9,10,11,14,16,17,18,19,20,21,22,23,24,25,26,28
 Seq#:1; Line(s) 29,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49
 Seq#:1; Line(s) 50,51,52,53,54
 Seq#:2; Line(s) 55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74
 Seq#:3; Line(s) 75,76,77,78,79,80,81,82,83,84,85,86,87,88
 Seq#:4; Line(s) 89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105
 Seq#:4; Line(s) 106,107,108,109,110,111
 Seq#:5; Line(s) 112,113,114,115,116,117,118,119,120,121,122,123,124,125
 Seq#:6; Line(s) 126,127,128,129,130,131,132,133,134,135,136,137,138,139,140
 Seq#:6; Line(s) 141,142,143,144,145,146,147,148,149,150,151
 Seq#:7; Line(s) 152,153,154,155,156,157,158,159,160,161,162,163,164,165
 Seq#:8; Line(s) 166,167,168,169,170,171,172,173,174,175,176,177,179
 Seq#:9; Line(s) 180,181,182,183,184,185,186,187,188,189,190,191,192,193
 Seq#:10; Line(s) 194,195,196,197,198,199,200,201,202,203,204,205,206,207
 Seq#:11; Line(s) 208,209,210,211,212,213,214,215,216,217,218,219,220,221
 Seq#:11; Line(s) 222,223,224
 Seq#:12; Line(s) 225,226,227,228,229,230,231,232,233,234,235,236,237,238

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Seq#:12; Line(s) 239,240,241
Seq#:13; Line(s) 242,243,244,245,246,247,248,249,250,251,252,253,254,255
Seq#:13; Line(s) 256,257,258
Seq#:14; Line(s) 259,260,261,262,263,264,265,266,267,268,269,270,271,272
Seq#:14; Line(s) 273,274,275,276,277,278,279,280,281
Seq#:15; Line(s) 282,283,284,285,286,287,288,289,290,291,292,293,294,295
Seq#:15; Line(s) 296,297,298,299,300,301
Seq#:16; Line(s) 302,303,304,305,306,307,308,309,310,311,312,313,314,315
Seq#:16; Line(s) 316,317,318,319,320,321
Seq#:17; Line(s) 322,323,324,325,326,327,328,329,330,331,332,333,334,335
Seq#:18; Line(s) 336,337,338,339,340,341,342,343,344,345,346,347,348,349
Seq#:18; Line(s) 350,351,352
Seq#:19; Line(s) 353,354,355,356,357,358,359,360,361,362,363,364,365,366
Seq#:19; Line(s) 367,368,369
Seq#:20; Line(s) 370,371,372,373,374,375,376,377,378,379,380,381,382,383
Seq#:20; Line(s) 384,385,386
Seq#:21; Line(s) 387,388,389,390,391,392,393,394,395,396,397,398,399,400
Seq#:22; Line(s) 401,402,403,404,405,406,407,408,409,410,411,412,413,414
Seq#:22; Line(s) 415,416,417,418,419,420
Seq#:23; Line(s) 421,422,423,424,425,426,427,428,429,430,431,432,433,434
Seq#:23; Line(s) 435,436,437,438,439,440
Seq#:24; Line(s) 441,442,443,444,445,446,447,448,449,450,451,452,453,454
Seq#:24; Line(s) 455,456,457
Seq#:25; Line(s) 458,459,460,461,462,463,464,465,466,467,468,469,470,471
Seq#:25; Line(s) 472,473,474
Seq#:26; Line(s) 475,476,477,478,479,480,481,482,483,484,485,486,487,488
Seq#:26; Line(s) 489,490,491,492,493,494,495,496,497,498,499,500
Seq#:27; Line(s) 501,502,503,504,505,506,507,508,509,510,511,512,513,514
Seq#:27; Line(s) 515,516,517,518,519,520
Seq#:28; Line(s) 521,522,523,524,525,526,527,528,529,530,531,532,533,534
Seq#:29; Line(s) 535,536,537,538,539,540,541,542,543,544,545,546,547,548
Seq#:30; Line(s) 549,550,551,552,553,554,555,556,557,558,559,560,561,562
Seq#:30; Line(s) 563,564,565
Seq#:31; Line(s) 566,567,568,569,570,571,572,573,574,575,576,577,578,579

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L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:112
L:804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:128
M:341 Repeated in SeqNo=42
L:835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:32
L:878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:48
M:341 Repeated in SeqNo=44
L:927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:32
L:955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:48
M:341 Repeated in SeqNo=46
L:980 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:1017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:1091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:1140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:1290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:1315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:1534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0
L:1566 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:0
L:1772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:0
L:1811 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:0